AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A process ~~Process~~ to cool harvest grapes comprising the steps of ~~, the grapes being transported~~ transporting the grapes ~~from a harvest reception vessel (1)~~ to a press ~~(5)~~ or to a maceration vessel ~~(23)~~, ~~characterized in that the grapes are charged~~ and charging the grapes with carbon dioxide during transport to the press ~~(5)~~ ~~and/~~or during transport to the maceration vessel ~~(23)~~.

2. (Currently amended) A process ~~Process~~ according to claim 1, ~~characterized in that~~ wherein gaseous carbon dioxide is brought into contact with the grapes.

3. (Currently amended) A process ~~Process~~ according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein liquid carbon dioxide is brought into contact with the grapes.

4. (Currently amended) A process ~~Process~~ according to ~~one of claims 1 to 3~~ claim 1, ~~characterized in that~~ wherein solid carbon dioxide ~~(dry ice)~~ is brought into contact with the grapes.

5. (Currently amended) A process ~~Process~~ according to ~~one of claims 1 to 4~~ claim 1 ~~characterized in that~~ wherein ~~the~~ carbon dioxide is fed in the gaseous state to the grapes and is at least in part taken from a reservoir which contains liquid carbon dioxide.

6. (Currently amended) An apparatus ~~Apparatus~~ for producing wine comprising [[:]]

a harvest reception vessel ~~(1)~~, a press ~~(5)~~, a maceration vessel ~~(23) and~~ , a connection line to the harvest reception vessel, ~~lines (24, 25)~~ a connection line to the press and a connection line to the maceration vessel, each of said connection lines being configured for transporting the grapes ~~between these elements (1, 5, 23) of the apparatus, characterized in that~~ wherein at least one ~~a~~ feed line ~~(16) and/or a feed line (17)~~ is provided to at least one of the connection lines , through ~~via~~ which carbon dioxide is fed into the at least one of the connection lines ~~line (24) and/or into the connection line (25)~~.

7. (Currently amended) An apparatus ~~Apparatus~~ for producing wine comprising ~~having~~ a harvest reception vessel ~~(1)~~, a press , ~~(5) and~~ a connection line ~~(24)~~ for transporting the grapes from the harvest reception vessel ~~(1)~~ to the press ~~(5)~~, ~~characterized in that~~ and a feed line ~~(16)~~ for feeding carbon dioxide into the connection line ~~(24) is provided~~.

8. (Currently amended) An apparatus ~~Apparatus~~ according to claim 6 ~~or 7~~, ~~characterized in that~~ wherein at least one of the feed lines ~~(16, 17)~~ for carbon dioxide is ~~are~~ connected to a reservoir for carbon dioxide which contains liquid and gaseous carbon dioxide.

9. (New) The process of claim 1, wherein the grapes are transported from a harvest reception vessel.

10. (New) The process of claim 1, further comprising the step of directing the movement of the grapes with one or more valves.

11. (New) The process of claim 1, further comprising the step of detecting the temperature of the grapes.

12. (New) The process of claim 1, further comprising the steps of measuring the temperature of the grapes and controlling the temperature of the grapes by providing carbon dioxide in a manner responsive to the measured temperature.

13. (New) The process of claim 1, wherein the temperature of the grapes is controlled with a programmable logic controller.

14. (New) The process of claim 1, further comprising the step of directing the movement of the carbon dioxide to the grapes with one or more valves.

15. (New) The apparatus of claim 6, further comprising one or more valves configured to direct the movement of the grapes.

16. (New) The apparatus of claim 6, further comprising one or more temperature measuring devices.

17. (New) The apparatus of claim 6, further comprising a programmable logic controller configured to control the amount of carbon dioxide provided.

18. (New) The apparatus of claim 6, further comprising one or more valves to control the movement of carbon dioxide.